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Control Applications, 1999. Proceedings of the 1999 IEEE International Conference on , Volume: 2 , 22-27 Aug. 1999

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[\[Abstract\]](#) [\[PDF Full-Text \(312 KB\)\]](#) IEEE CNF2 **ARMVLS-atomic reaction model visual language system-a new way of animating algorithms***Warendorf, K.; Wen Jing Hsu; Poh Yeen Seah;*

Information, Communications and Signal Processing, 1997. ICICS., Proceedings of the 1997 International Conference on , 9-12 Sept. 1997

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Circuits and Systems, 1998. Proceedings. 1998 Midwest Symposium on , 9-12 1998

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Image Processing, 1998. ICIP 98. Proceedings. 1998 International Conference on , Volume: 1 , 4-7 Oct. 1998

Pages:483 - 487 vol.1

[Abstract] [PDF Full-Text (560 KB)] IEEE CNF

5 Control of level crossings in stationary Gaussian random processes

Hansson, A.;

Automatic Control, IEEE Transactions on , Volume: 38 , Issue: 2 , Feb. 1993

Pages:318 - 321

[Abstract] [PDF Full-Text (324 KB)] IEEE JNL

6 Efficient numerical method for the discrete-time symmetric matrix polynomial equation

Henrion, D.; Sebek, M.;

Control Theory and Applications, IEE Proceedings- , Volume: 145 , Issue: 5 , S 1998

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[Abstract] [PDF Full-Text (452 KB)] IEEE JNL

7 Turning the tracking problem sideways: servo tricks for DVD+RW clo generation

Abramovitch, D.;

American Control Conference, 2000. Proceedings of the 2000 , Volume: 4 , 28 June 2000

Pages:2615 - 2620 vol.4

[Abstract] [PDF Full-Text (468 KB)] IEEE CNF

8 Speech segmentation and recognition using syntactic methods on th direct signal

Baudry, M.; Dupeyrat, B.;

Acoustics, Speech, and Signal Processing, IEEE International Conference on ICASSP '79. , Volume: 4 , Apr 1979

Pages:101 - 104

[Abstract] [PDF Full-Text (95 KB)] IEEE CNF

9 Time domain speech synthesis-by-rules using a flexible and fast sign management system

Rodet, X.; Delatre, J.-L.;

Acoustics, Speech, and Signal Processing, IEEE International Conference on ICASSP '79. , Volume: 4 , Apr 1979

Pages:895 - 898

[Abstract] [PDF Full-Text (112 KB)] IEEE CNF

10 Adaptive estimation of stability derivatives via multiple observers

Nakamura, Y.; Muramatsu, E.; Okubo, H.; Tokutake, H.;

SICE 2002. Proceedings of the 41st SICE Annual Conference , Volume: 3 , 5-7 2002

Pages:1822 - 1825 vol.3

[Abstract] [PDF Full-Text (267 KB)] IEEE CNF

11 **A BiCMOS read channel two-chip combo for magneto-optical disk dr**
Sang-Soo Lee; Laber, C.A.;
ASIC Conference and Exhibit, 1995., Proceedings of the Eighth Annual IEEE
International , 18-22 Sept. 1995
Pages:325 - 328

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1 Specification and dialogue control of visual interaction through visual rewriting systems

P. Bottoni, M. F. Costabile, P. Mussio

 November 1999 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,
Volume 21 Issue 6

Full text available: pdf(886.71 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Computers are increasingly being seen not only as computing tools but more so as communication tools, thus placing special emphasis on human-computer interaction (HCI). In this article, the focus is on visual HCI, where the messages exchanged between human and computer are images appearing on the computer screen, as usual in current popular user interfaces. We formalize interactive sessions of a human-computer dialogue as a structured set of legal visual sentences, i.e., as a visual language ...

Keywords: control automaton, dialogue control, visual languages

2 Technical reports

SIGACT News Staff

 January 1980 **ACM SIGACT News**, Volume 12 Issue 1

Full text available: pdf(5.28 MB)

 Additional Information: [full citation](#)

3 Launching the new era

Kazuhiro Fuchi, Robert Kowalski, Koichi Furukawa, Kazunori Ueda, Ken Kahn, Takashi Chikayama, Evan Tick

 March 1993 **Communications of the ACM**, Volume 36 Issue 3

Full text available: pdf(3.45 MB)

 Additional Information: [full citation](#), [references](#), [index terms](#), [review](#)

4 Compiler transformations for high-performance computing

David F. Bacon, Susan L. Graham, Oliver J. Sharp

 December 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 4

Full text available: pdf(6.32 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)


In the last three decades a large number of compiler transformations for optimizing programs have been implemented. Most optimizations for uniprocessors reduce the number of instructions executed by the program using transformations based on the analysis of scalar quantities and data-flow techniques. In contrast, optimizations for high-performance superscalar, vector, and parallel processors maximize parallelism and memory locality with transformations that rely on tracking the properties of ...

Keywords: compilation, dependence analysis, locality, multiprocessors, optimization, parallelism, superscalar processors, vectorization

5 Natural language question-answering systems: 1969

Robert F. Simmons

January 1970 **Communications of the ACM**, Volume 13 Issue 1

Full text available:  [pdf\(2.15 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Recent experiments in programming natural language question-answering systems are reviewed to summarize the methods that have been developed for syntactic, semantic, and logical analysis of English strings. It is concluded that at least minimally effective techniques have been devised for answering questions from natural language subsets in small scale experimental systems and that a useful paradigm has evolved to guide research efforts in the field. Current approaches to semantic analysis ...

Keywords: artificial intelligence, fact retrieval, language processing, natural language, question-answering system, semantics

6 Automated Testing of Classes

Ugo Buy, Alessandro Orso, Mauro Pezze

August 2000 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2000 ACM SIGSOFT international symposium on Software testing and analysis**, Volume 25 Issue 5

Full text available:  [pdf\(396.92 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Programs developed with object technologies have unique features that often make traditional testing methods inadequate. Consider, for instance, the dependence between the state of an object and the behavior of that object: The outcome of a method executed by an object often depends on the state of the object when the method is invoked. It is therefore crucial that techniques for testing of classes exercise class methods when the method's receiver is in different states. The state ...

Keywords: class testing, data flow analysis, symbolic execution, testing and analysis, testing object-oriented software

7 Supporting shared data structures on distributed memory architectures

C. Koelbel, P. Mehrotra, J. Van Rosendale

February 1990 **ACM SIGPLAN Notices , Proceedings of the second ACM SIGPLAN symposium on Principles & practice of parallel programming**, Volume 25 Issue 3

Full text available:  [pdf\(1.14 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Programming nonshared memory systems is more difficult than programming shared memory systems, since there is no support for shared data structures. Current programming languages for distributed memory architectures force the user to decompose all data structures into separate pieces, with each piece "owned" by one of the processors in the

machine, and with all communication explicitly specified by low-level message-passing primitives. This paper presents a new programming enviro ...

8 Institutions: abstract model theory for specification and programming

Joseph A. Goguen, Rod M. Burstall

January 1992 **Journal of the ACM (JACM)**, Volume 39 Issue 1


Full text available:  pdf(3.81 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

There is a population explosion among the logical systems used in computing science. Examples include first-order logic, equational logic, Horn-clause logic, higher-order logic, infinitary logic, dynamic logic, intuitionistic logic, order-sorted logic, and temporal logic; moreover, there is a tendency for each theorem prover to have its own idiosyncratic logical system. The concept of institution is introduced to formalize the informal notion of "logical system."

9 Workshop on compositional software architectures: workshop report

May 1998 **ACM SIGSOFT Software Engineering Notes**, Volume 23 Issue 3


Full text available:  pdf(2.91 MB)

Additional Information: [full citation](#), [index terms](#)

10 Algorithm 719: Multiprecision translation and execution of FORTRAN programs

David H. Bailey

September 1993 **ACM Transactions on Mathematical Software (TOMS)**, Volume 19 Issue 3

Full text available:  pdf(2.03 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes two Fortran utilities for multiprecision computation. The first is a package of Fortran subroutines that perform a variety of arithmetic operations and transcendental functions on floating point numbers of arbitrarily high precision. This package is in some cases over 200 times faster than that of certain other packages that have been developed for this purpose. The second utility is a translator program, which facilitates the conversion of ordinary Fortran p ...

Keywords: multiple-precision computation, multiprecision arithmetic

11 Experiments with a powerful parser

Martin Kay

August 1967 **Proceedings of the 1967 conference on Computational linguistics**

Full text available:  pdf(869.93 KB)

Additional Information: [full citation](#), [citations](#)

12 Natural language in document retrieval systems: CUE: a preprocessor system for restricted, natural English

David B. Loveman, John A. Moyne, Robert G. Tobey

April 1971 **Proceedings of the 1971 international ACM SIGIR conference on Information storage and retrieval**

Full text available:  pdf(964.79 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

CUE, an input interface system which permits the computer to utilize natural but restricted English as input, is presented. In addition, an experimental model for CUE, Proto-RELADES, which can "understand" and execute English sentences about the content of the library at IBM's Boston Programming Center is described. These sentences can be query, command,

or conditional sentences. The linguistic component of the system is based on a transformational grammar of English that performs a full syntact ...



Keywords: CUE, English, RELADES, computational linguistics, grammar, natural language, parsing, semantics, syntax

13 Dictionaries, dictionary grammars and dictionary entry parsing

Mary S. Neff, Branimir K. Boguraev

June 1989 **Proceedings of the 27th conference on Association for Computational Linguistics**

Full text available:

 pdf(1.21 MB) 
[Publisher Site](#)


Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

We identify two complementary processes in the conversion of machine-readable dictionaries into lexical databases: recovery of the dictionary structure from the typographical markings which persist on the dictionary distribution tapes and embody the publishers' notational conventions; followed by making explicit all of the codified and ellided information packed into individual entries. We discuss notational conventions and tape formats, outline structural properties of dictionaries, observe a ra ...

14 Coordination languages and their significance

David Gelernter, Nicholas Carriero

February 1992 **Communications of the ACM**, Volume 35 Issue 2

Full text available:  pdf(8.24 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#), [review](#)

Keywords: Linda, coordination languages

15 Compiler parallelization of an elliptic grid generator for 1990 Gordon Bell prize

Gary Sabot, Lisa Tennes, Alex Vasilevsky, Richard Shapiro

August 1991 **Proceedings of the 1991 ACM/IEEE conference on Supercomputing**


Full text available:  pdf(808.43 KB)

Additional Information: [full citation](#), [references](#), [index terms](#)

16 Coordination languages and their significance

David Gelernter, Nicholas Carriero

February 1992 **Communications of the ACM**, Volume 35 Issue 2

Full text available:  pdf(8.24 MB)

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17 Operating statistics for the transformational question answering system

Fred J. Damerau

January 1981 **Computational Linguistics**, Volume 7 Issue 1

Full text available:  pdf(961.42 KB)

 [Publisher Site](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)


This paper presents a statistical summary of the use of the Transformational Question Answering (TQA) system by the City of White Plains Planning Department during the year 1978. A complete record of the 788 questions submitted to the system that year is included, as are separate listings of some of the problem inputs. Tables summarizing the performance

of the system are also included and discussed. In general, performance of the system was sufficiently good that we believe that the approach bei ...

18 A composable framework for secure multi-modal access to internet services from Post-PC devices

Steven J. Ross, Jason L. Hill, Michael Y. Chen, Anthony D. Joseph, David E. Culler, Eric A. Brewer

October 2002 **Mobile Networks and Applications**, Volume 7 Issue 5

Full text available:  pdf(340.33 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)


The Post-PC revolution is bringing information access to a wide range of devices beyond the desktop, such as public kiosks, and mobile devices like cellular telephones, PDAs, and voice based vehicle telematics. However, existing deployed Internet services are geared toward the secure rich interface of private desktop computers. We propose the use of an infrastructure-based secure proxy architecture to bridge the gap between the capabilities of Post-PC devices and the requirements of Internet ser ...

Keywords: internet, middleware, post-PC, security, transcoding

19 S-connect: from networks of workstations to supercomputer performance

Andreas G. Nowatzky, Michael C. Browne, Edmund J. Kelly, Michael Parkin

May 1995 **ACM SIGARCH Computer Architecture News , Proceedings of the 22nd annual international symposium on Computer architecture**, Volume 23 Issue 2

Full text available:  pdf(1.38 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

S-Connect is a new high speed, scalable interconnect system that has been developed to support networks of workstations to efficiently share computing resources. It uses off-the-shelf CMOS technology to directly drive fiber-optic systems at speeds greater than 1 Gbit/sec and can realize bisection bandwidths comparable to high-end MPP systems while being >10x more cost-effective. S-Connect systems do not rely on centralized switches, but rather are composed of adaptive, topology independent ...

20 The acquisition and use of context-dependent grammars for English

Robert F. Simmons, Yeong-Ho Yu

December 1992 **Computational Linguistics**, Volume 18 Issue 4

Full text available:  pdf(1.70 MB)  Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)
[Publisher Site](#)

This paper introduces a paradigm of context-dependent grammar (CDG) and an acquisition system that, through interactive teaching sessions, accumulates the CDG rules. The resulting context-sensitive rules are used by a stack-based, shift/reduce parser to compute unambiguous syntactic structures of sentences. The acquisition system and parser have been applied to the phrase structure and case analyses of 345 sentences, mainly from newswire stories, with 99% accuracy. Extrapolation from our current ...

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